

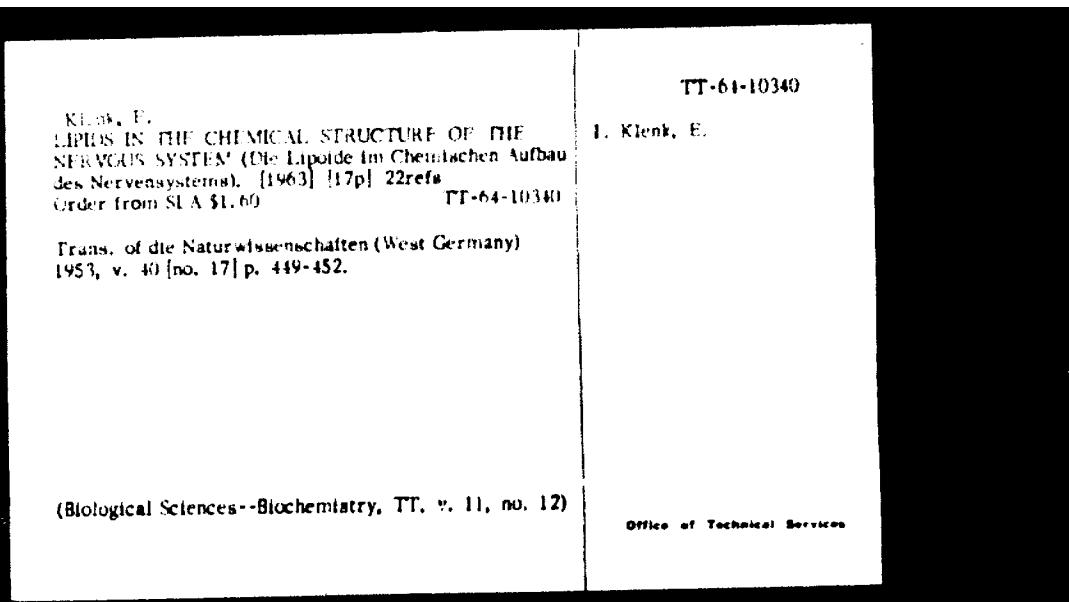
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Order from SLA \$1.60 62-1833

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DESCRIPTORS: *Lignin, Wood, Trees, *Biosynthesis,
Glycosidases, Glucosides, Botany, Labelled substances,
Biochemistry, *Cells (Biology), *Tracer studies.

Tissue undergoing lignification contains a cell-attached
beta-glucosidase. It breaks down the glucoside D coni-
feryl occurring there into glucose and coniferyl alcohol,
which then is transformed into lignin by the likewise
present red-oxases. Radioactive D coniferin and D
glucovanillin was administered to young spruces. In both
cases the radioactive substance was incorporated within
a few days into the cells undergoing lignification at the
(Biological Sciences--Botany, TT, v. 9, no. 6) (over)

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(DISCHARGE: *Citric acid, *Excretion, Urine,
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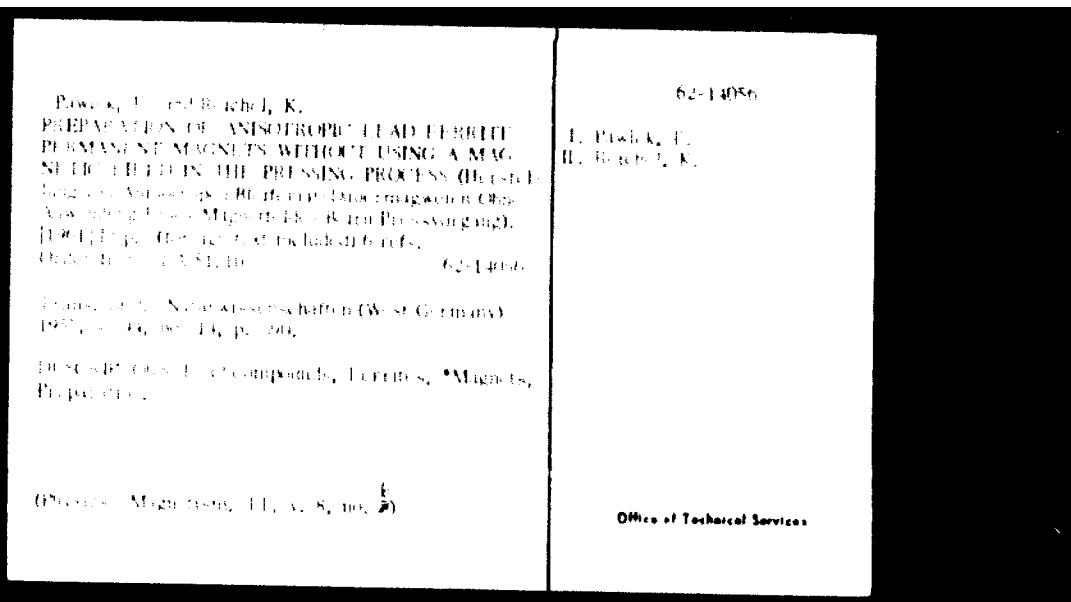
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